



# On-Farm Comparison Results

- BULLER/RAIKES

**Years:** 1998 & 2000

**Title:** Soybean Herbicide Programs

**Crop:** Soybeans

**NSFGPP Operator:** Lonnie Buller/Ron Raikes, Saunders County

**Private Industry Cooperator:** Mark McKenzie & Rob Nielsen

**Objective:** To determine and document the effect of various herbicide programs on the profitability of soybean production.

**Treatments:** Roundup post vs. Roundup burn-down + post vs. Command pre + Roundup post vs. Pursuit pre + Roundup post.



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## Results:

	<u>Treatment</u>	<u>Yield</u> <u>bu/ac at 13%</u>	<u>Moisture</u> <u>%</u>	<u>Cost</u> <u>\$/ac</u>
<b>1998</b>	(1) Roundup post	46	13.3	14.10
	(2) Roundup pre + post	43	13.5	27.31
	(3) Command pre + Roundup post	44	13.4	29.91
	(4) Pursuit pre + Roundup post	46	13.5	23.84

## Statistical Analysis: (Prob >/T)

1 vs. 2	0.12 ns	----
1 vs. 3	0.26 ns	----
1 vs. 4	0.83 ns	----

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### Results:

	<u>Treatment</u>	<u>Yield</u>	<u>Moisture</u>	<u>Test Wt.</u>	<u>Cost</u>
		<u>bu/ac at 13%</u>	<u>%</u>	<u>lbs.bu</u>	<u>\$/ac</u>
<b>2000</b>	(1) Roundup post	56	9.7	56.3	10.50
	(2) (Burndown Roundup, 2) + Roundup post	56	9.7	56.6	21.81
	(3) Command pre + Roundup post	56	9.9	56.6	21.87

### Statistical Analysis: (Prob >F)

All treatments	0.82 ns	0.026**	0.163 ns
1 vs. 3	0.66 ns	0.016**	0.166 ns
2 vs. 3	0.94ns	0.016**	0.732 ns

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**Summary:** The use of Roundup alone post applied in 1998 resulted in the maximum yield at a cost that was less than the other treatments. There were no significant differences in seed yield due to herbicide treatment. In 2000, seed yield was the same for all three herbicide treatments. Again, Roundup post was the most economical treatment. Seed moisture was slightly higher from the pre-emergence treatment.